ಪತ್ರ 3580/2017-18.

ಬ.ತ್ಯಾಗರಾಜನಗರ ವಲಯ.

ಪತ್ರ 357901/80ನೆ 358000 ರ
ಪತ್ರಿಕೆಯಲ್ಲಿ.

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

First & Final Bill

JOB CODE: 009-17-000042.

M. A. R. 57 (Rule 116) Head of A/c = P1602 **No. B**

Measurement Book

Est: 300 lakhs

357901

Serial No. Drilling of Borewells, providing pump motor and commissioning

Name of Work the ward no: 9 Vidhyaranyapura From To

Name of Contractor of nature of Agency Sri. Madhusudan. R.

Date of commencement of work BBMP/EE/BTP/SS/2017-18, Dt: 06.05.2017.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1)	Geophysical Investigation of site for sinking Borewell for supplying drinking water to the habitation either through the hand pump MWS of BWSSB by Vertical Electrical Sounding by adopting Venner including reconnaissance survey of Geological formation Geophysical investigation of existing Groundwater in the Vicinity. its Quality 1.0m in consolidated formation for proper seating of casing pipe depth of drilling required to cover full depth of aquifer proposed to be tapped probable Yield and other information required including transportation of instrument and accessories to work site Engaging technical personal and labour required etc. and as per specification and direction of the Ex'ncer incharge.						
	8th main road Narasipura	1X1	—	—	—	1.0	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Near	Krishna Temple, Dodlabomma sandra	1X1	—	—	—	1.0	
	Kempegowda Layout	1X1	—	—	—	1.0	
	Durga layout	1X1	—	—	—	1.0	
					Total:	4.0	Nos
2)	Sinking borewell of 165 mm dia clear using 6 par fast hydraulic rig of capacity 250 PSIG and above CFM and above in all strata including overburden up to 20 mts fixing of casing pipes, collars and cap with necessary cutting threading and welding including transportation of rig and supporting Vehicles crew charges and cost of consumables etc, complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars cap. etc).						

M. A. R. 5
Measure

Serial No. .....
Name of Work ..... From.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work		Number	L
1	2		3	
	For depth	0 to 50 m	4X1	
3)		50 to 100 m	4X1	
4)		100 to 150 m	4X1	
5)		150 to 200 m	4X1	
6)		200 to 250 m	4X1	
7)		250 to 300 m	4X1	
38)	Supply of ISI mark 175 mm nomina Fe 410 of wall thickness 5.4mm amendments Electric resistan			

REMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
—	—	—	1.0	
—	—	—	1.0	
—	—	—	1.0	
		Total:	4.0	No's

chia clear using Sopar fast hydraulic
nd above CFM and above in all strata
20mts fixing of casing pipes, collars and
ading and welding including transporta
Vehicles crew changes and cost of
ding weld testing at the final depth
mpressor for one hour (excluding cost of

M. A. R. 57 (Rule 116)
Measurement Book

No. B

357902

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	For depth						
3)	0 to 50m	1X1	~~0~~	—	50.00	~~200.00~~	Rmt
4)	50 to 100m	4X1	—	—	50.00	200.00	Rmt
5)	100 to 150m	4X1	—	—	50.00	200.00	Rmt
6)	150 to 200m	4X1	—	—	50.00	200.00	Rmt
7)	200 to 250m	4X1	—	—	50.00	200.00	Rmt
	250 to 300m	4X1	—	—	50.00	200.00	Rmt
38)	Supply of IS1 mark 175 mm nominal bore, plain end steel casing pipe grade of steel Fe 410 of wall thickness 5.4mm thick confirming to IS 4270~~0~~-2001 and latest amendments Electric resistance welded steel tube material and confirming						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random Length of 5 to 7 mts both Ends threaded confirming to IS 554/1985. One end fixed with socket confirming to IS 4270/2001 and the other end with screwed pipes ISI marking weighing 25.10 kg/m process include collar - medium duty.						
	1) 8th main Narasipura Lyt	1×1.0	—	—	70.0	70.00	Rmt
	2) Near Krishna Temple (Doddabommasandra)	1×1.0	—	—	70.0	70.00	-"-
	3) Kempegowda Lyt (Near Entrence)	1×1	—	—	70.0	70.00	-"-
	4) Durga Layout	1×1	—	—	70.0	70.00	-"-
					Total	280.00	Rmt

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
4)	Providing 250 mm dia PVC pipe 6 kg/ SEPRED Approved
5)	Providing and fix 160 mm Borewell c
6)	Supply and delive Calamal / make Sul comprising of S of Stainless Ste

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8
d by basic open heavy Electric or basic of 5 to 7 mts both ends threaded confirming with socket confirming to IS 4270/2001 pipes ISI marking weighing 25.10 kg/m duty.				
—	—	70.0	70.00	Rmt
—	—	70.0	70.00	"
—	—	70.0	70.00	"
—	—	70.0	70.00	"
		Total	280.00	Rmt

M. A. R. 57 (Rule 116)
Measurement Book

No. B 357903

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
4)	Providing 250 mm dia PVC pipe 6 kg/cm SEPRED Approved Rate	4×1	18.00	—	—	72.00	Rmt
5)	Providing and fixing 160 mm Borewell Cap	4×1	—	—	—	4.00	Each.
6)	Supply and delivery at site brand New texmo/ Calamal/ make Suitable for Vertical Installation comprising of single stage or multistage CF pump close coupled by means of Stainless steel coupling to Suitable Hp Suitable Speed totally	innoval/ Lubi/ Sabar/ Atalant in 150 mm dia bore well					

ENT BOOK

Dimensions			Contents	Reference to last Measurement
ngth 4	Breadth 5	Depth 6	7	8
30·0	–	–	180·00 Mt	
0·0	–	–	210·00 –11–	
0·0	–	–	150·00 –11–	
		Total:	2640·0 Mt	

Pipe line trenches with selected
Excavation including authority
the disposal of the surplus Earth

Qty of Item No: 2 Qty as 1188

M. A. R. 57 (Rule 116)
Measurement Book

No. B 357913

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
29)	Providing and fixing in position bronze gate Valve with CI wheel of approved Quality (Screwed End) 50 mm nominal bore including cost of all materials, labour and hire of Equipments with all leads complete as per specifications.						
		2×1	–	–	–	2.00	Nos
		2×1	–	–	–	2.00	–11–
		2×1	–	–	–	2.00	–11–
		2×1	–	–	–	2.00	–11–
					Total:	8.00	Nos

AE 19/2/2018

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		ABSTRACT					
SL NO	Items / particulars	Unit	From MB P	To	Qty	Rate	Amount in ₹
1)	Geophysical Investigation survey	Each	357901	01½	4.0	1882.0	7528=00
2)	Sinking of borewell	Rmt	357901½	902	200.00	300.00	60,000=00
					200.00	400.00	80,000=00
					200.00	445.00	89,000=00
					200.00	470.00	94,000=00
					200.00	544.00	108800=00
3)	Supply of ISI steel casing Pipe.	Rmt	357902	904	2000	583.00	116600=00
		Rmt	357902½		280.0	1325.00	371000=00
4)	250mm ϕ PVC Pipes	Rmt	357903		720	754.47	543222=00
5)	160mm Borewell Cap	Each	357903		4.0	100.00	400=00
6)	Pumpset (Texmo/Lubi)	Nos	357903	903½	4.0	60400.0	241600=00

Serial No. .....
Name of Work .....
Name of Contractor of na
Date of commencement o

Date 1	Full description 2
7)	ISI Marked Tube
8)	Heavy Duty C
9)	3 core flat - sible pump C
10)	Labour char
11)	20"x20"x2.5 Wooden plan

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8
TRACT				
From MB P	To	Qty	Rate	Amount in ₹
357901	01/2	4.0	1882.0	7528=00
		200.00	300.00	60,000=00
		200.00	400.00	80,000=00
357901/2	902	200.00	445.00	89,000=00
		200.00	470.00	94,000=00
		200.00	544.00	108800=00
3579021	021	2000	583.00	116600=00
3579021/2		280.0	1325.00	371000=00
357903		72.0	754.47	54322=00
357903		4.0	100.00	400=00
357903	903/2	4.0	60400.0	241600.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 357914

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
7)	ISI marked GI Steel Tube	Rmt	357904	904/2	1080.0	375.00	405000=00
8)	Heavy Duty collar 150mmØ	Nos	357904/2		180.0	130.00	23400=00
9)	3 core flat PVC Submer-sible pump Cable.	Mts	357904/2		2240.0	188.70	422688=00
10)	Labour charges.	Each	357905		180.0	88.00	15840=00
11)	20"x20"x2.5" polished Wooden plank (15mm Thick)	Each	357905	-	4.00	302.00	1208=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
12)	1.1. LT UG Cable	Mts			120.0	140.40	16848=00
13)	Labour charges for 1.1 KV UG Cable	Mts			120.0	10.80	1296=00
14)	Digging of Trench of 0.6m x 0.5m	Mts			100.0	85.00	8500=00
15)	40mm ϕ GI Pipe	Mts			16.0	345.00	5520=00
16)	LT Cast Iron pot heads	No's			4.0	280.00	1120=00
17)	Earth Electrode for Grounding	No's			4.0	2727.00	10908=00
18)	Procelain fuse channel	No's			24.0	180.00	4320=00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of work
1	2
19)	50 mm Nominal bor Gun metal Non-retur Valve
20)	NP/CP waste unions
21)	50mm ϕ GI x [illegible] pipe
22)	Shunt capacitors
23)	Miniature circuit breakers.

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
		120.0	140.40	16848=00
		120.0	10.80	1296=00
		100.0	85.00	8500=00
		16.0	345.00	5520=00
		4.0	280.00	1120=00
		4.0	2727.00	10908=00
		24.0	180.00	4320=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 357915

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
19)	50 mm Nominal bore Gun metal Non-return Valve	No's			4.0	1585.75	6343=00
20)	NP/CP wastevnions.	No's			4.0	227.90	912=00
21)	50mm ϕ GI x nipple	Nos			16.0	80.00	1280=00
22)	Shunt capacitors	No's			4.0	350.00	1400=00
23)	Miniature circuit breakers.	No's			4.0	1547.00	6188=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
24)	Fabricating supplying and mounting MS Box	Sq.cm			93600.0	0.33	30888=00
25)	~~New star~~ 12.5 Hp to 15 Hp Star Delta starter	No's			4.0	11000.00	44000=00
26)	Earth work excavation	m^3			1188.0	30.00	35640=00
27)	PVC pipes.	Rmt			2640.0	157.00	44480=00
28)	Refilling of earth work postion	m^3			1188.0	61.00	72468=00
29)	Brass gate valve	Each			8.0	2175.12	17401=00

Vouched ok 9/07

Limit Total : 27,70800=0

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	(Rupees Twenty s
	Certificate :-
	1) The
	gen
	2) The

Kedar

.. 19/2

AE-9

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8
		93600·0	0·33	30888=00
		4·0	11000·00	44000=00
		1188·0	30·00	35640=00
		2640·0	157·00	414480=00
		1188·0	61·00	72468=00
		8·0	2175·12	17401=00
		Limit Total :		27,70800=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 357916

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	(Rupees Twenty seven lakhs & seventy thousand eight hundred only)						
	Certificate:-						
	1) The contractor has remove the debris/drilled rods removed from the work spot.						
	2) The contractor has done the work satisfactorily.						
	AE-9 ... 19/2/2018						

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ 27,70,800-೦ ಗಳ ಕಡಿತ ಮಾಡಿದೆ: ಇದರಲ್ಲಿ ರೂ 62852-೦ ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು ರೂ 27,07,948-೦ Rs: Twenty Seven Lakh Seven thousand nine hundred forty eight only. ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ					Total Rs: 27,70,800-೦ IT - 27708-೦ CM - 27708-೦ CBF - 2771-೦ Fine - 4665-೦ Adjust 62852-೦ Charge: 27,07,948-೦	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of work
1	2